

ABSTRACT

An LED package includes a heat-sinking slug that is inserted into an insert-molded leadframe. The slug may include an optional reflector cup. Within this cup, the LED and a thermally conducting sub-mount may be attached. Wire bonds extend from the
5 LEDs to metal leads. The metal leads are electrically and thermally isolated from the slug. An optical lens may be added by mounting a pre-molded thermoplastic lens and a soft encapsulant or by casting epoxy to cover the LED or by a cast epoxy lens over a soft encapsulant.

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